PATENT COOPERATION TREAT

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter Fof the Patent Cooperation Treaty)

(PCT Rule 44his)

Applicant's or agent's file reference 4313-4010PC	FOR FURTHER ACTION	See item 4 below
International application No. PCT/IB2066/002028	international filing date (<i>day/month/year)</i> 25 July 2006 (25.07.2006)	Priority date (<i>day/month/year)</i> 26 July 2005 (26.07.2005)
International Patent Classification (8th See relevant information in Form P		
Applicant BIOREST LTD.		

1.	The international preliminary report on paternability (Chapter I) is assued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
<u>\$</u>	This REPORT consists of a total of 6 sheets, including this cover sheet.					
	In the attached sheets, any refe to the international prefirminary	rence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.				
3,	This report contains indication	s relating to the following items:				
	Box No. 1	Hasis of the report				
	Hex No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelry, inventive step and industrial applicability				
	Hox No. IV	Lack of unity of invention				
	Box No. V	Resconed statement under Article 35(2) with regard to soverty, inventive step or industrial applicability, citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
		ommunicate this report to designated Offices in accordance with Rules 4456 3(c) and 9356.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				

	Dute of issuance of this report 27 November 2008 (27.11.2008)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Cecile Chatel
Facsimile No. +41 22 338 82 70	c-mail; ro.d:@wipc.ini

PATENT COOPERATION TREATY

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To: Dorothy R. Auth Morgan & Finnegan, Llp			PC	
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NEW YORK, NY 10281-2101	79.		ritten opini	
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1. This opinion conssins indicatio	ons relating to the following tre	min e		e e
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Box No. II Priori	W			
Box No. III Non-	stablishmen of opinion with r	egard to novelty, inv	entive step and ind	strial applicability
Box No. IV Lack	of unity of invention		85.	
Box No. V Reason spplic	ned statement under Rule 43 <i>bi</i> ability; citations and explanate	r.1(s)(i) with regard ms.supporting such s	io nevelty, inventiv Estement	e step or industrial
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Box No. VII Certai	n defects in the international a	optication	***************************************	· ·
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FURTHER ACTION			ş.	
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If this opinion is, as provided in IPEA a written reply together mailing of Form PCT/ISA/220 For further options, see Form I	, where appropriate, with am or before the expiration of 22	endments, before to	e expiration of 3	months from the date of
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For further details, see notes to	Form PCT/ISA/220.	.*		moone.
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Alexandria, Virginia 22313-1 Simile No. (571) 273-3201	120) ev sanc zono (1	2.00.2003)	Telephone No. (5)	11) 272-1600 44
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PCT/IB200F 702028 29.07.2008

International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

PCT/1806/02028

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Box N	v. I Hasis of this opinion		
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1. With	regard to the language, this opinion has been established on the basis of		
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	a translation of the international application into which is the lange purposes of international search (Rules 12.3(a) and 23.1(b)).	uege of a translation furni	shed for the
2.	This epinion has been established taking into account the rectification of an of	rojoga mistoka authorized	by or entified to this
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	filed together with the international application in electronic form.	•	
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			4.5
4. [7]	In addition, in the case that more than one version or copy of a sequence list	ne and/or table(s) relating	r thereto has been
yerres	filed or furnished, the required statements that the information in the sobseque	nt or additional copies is	deadcal to that is
	the application as filed or does not go beyond the application as filed, as appro-	priate, were fumilished.	
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PCT/IB2006/ 2028 29.07.2008

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/1906/02028

		income.
Box 9	o. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
The	questions whicher the claimed invention appears to be novel, to involve an inventive step (to be non-chvious), or to be urially applicable have not been examined in respect of:	*****
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	the entire international application	
X	claims Nex. 32.37	
Marie	annua state Stiller	
beca	180 0;	
	the said internadonal application, or the said claim Nos relate to the following subject matter which does not	
******	require an international search (specify);	
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	the description, claims or drawings (indicate particular elements below) or said claims Nos. 12-17 are so unclear that no	
šć	meaningful opinion could be formed (specify):	
	Claims 32-37 are improper multiple dependent claims, and thus were not examined with respect to novelty, inventive step	CXF
	industrial applicability.	,
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	the claims, or said claims Nos ure so inedequately supported by the description that no meaningful opinion	
	could be formed (specify):	-
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Samuel.	no international search report has been established for said claims Nos.	
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the	
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•	furnish a sequence listing on paper complying with the standard provided for in Annex C of the	,,,,,,,,
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	in a form and manner acceptable to it.	******
•	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of	
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	pay the required law furnishing fee for the furnishing of a sequence listing in response to an invitation	
	under Rules 13/2r.1(a) or (b).	-
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	requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not	
	available to the International Searching Authority in a form and manner acceptable to it.	-
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	See Supplemental Box for further details.	· sesses
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WRITTEN OPINION OF THE : INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB06/02028

Box No. V. Reasoned statement under Ru applicability; citations and exp	de 43 <i>bi</i> r.1(a)(f) danations suppo	with regard to novelty, inventiv criing such statement	e step or industrial
1. Satement			
Novelty (N)	Claims	Please See Continuation Sheet	YES
e. Pr	Claims	Picasa See Continuation Sheet	NO NO
Inventive step (IS)	Claims	Hesse See Continuation Sheet	AE2
		Hease See Continuation Sheet	NO
Industrial applicability (IA)	Claims	Please See Consinuation Sheet	YES
	Claims	Please See Continuation Sheet	NO

2. Citations and explanations:

Claims 1, 4-8, 10-16, 20, 24, 27-29, 38, and 41 lack novelry under PCT Article 33(2) as being anticipated by Shi et al. (US 6,770,466). Shi et al., teaches encapsulating the active ingredients into a liposome (cot 83) and teaches aspirin (cot 174) as well as midramyoin and 5-flouroursell (cot 51-52) and paclitate! (cot 119). Shi et al. teaches particle sizes of 9.2 microns and lower (cot 173) and they reach the usofolouses of their invention for treatment of isohemic-reperfusion injury (cb) 91-92).

Claims 2-3, 9, 17-19, 21-23, 25-26, 30-31, 39-40, 42-43 lack an inventive step under PCT Article 33(3) as being obvious over Shi et al. (US 6,770,466) in view of Danemberg et al. (US 2004/0263391 A1). Shi et al. teaches encapsulated active ingredients in liposomes, however they do not teach embedded or particulated ingredients. Danemberg et al. teaches encapsulated bisphosphates, ambedded bisphosphates, and particulate bisphosphates (page 3 [0028]). They further teach that these hisphosphates can be used to treat myocardial infarction (claim 29) including reducing the zone of infarct (claim 68). They also leach chefronate, one of the bisphosphates claimed by applicant in claim 19 (page 4, [0035]). Danemberg et al. further teaches liposomes, microparticles, nameparticles, and aggregates (page 3, [0025]). Since back methods are treating myocardial infarction and inherito-reperfusion injury, and both have active ingredients encapsulated in liposomes, it would be obvious for one of ordinary skill in the art at the time of the invention to also use the formulations of Danemberg et al. in the method of Shi et al.

Claims 1-31, 38-43 meet the criteria est cut in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry for treatment of heart related disorders and as a drug delivery agreem.

Form PCT/ISA/237 (Box No. V) (April 2007)

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WRITTEN OPINION OF THE	
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Supplemental Box

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Form PCT/ISA/237 (Supplemental Box) (April 2007)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicans's or agent's file reference 4313-4010PC		Form PCT/ISA/220 ere applicable, item 5 below.
International application No. PCT/IB06/02028	International filing date (day/month/year) 25 July 2006 (25.07.2006)	(Earliest) Priority Date (day/month/year) 26 July 2005 (26,07,2005)
Applicant BIOREST LTD.		
applicant according to Article 18. A co This international search report consist It is also accompanie I. Basis of the Report a. With regard to the language, the international a translation of the language b. This international search reauthorized by or notified to	ed by a copy of each prior art document cite c international search was carried out on the b application in the language in which it was fit the international application into furnished for the purposes of international sear aport has been established taking into account this Authority under Rule 91 Rule 43.6 bisto	ed in this report. ssis of: led. tch (Rules 12.3(a) and 23.1(b)) the rectification of an obvious mistake)
Certain claims were found Linky of invention is lacking With regard to the title. The text is approved as sub-		the international application, see Box No. 1.
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5. With regard to the abstract. the text is approved as sub- the text has been establishe may, within one month fro	d, according to Rule 38.2(b), by this Authoric	y as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.
as suggested by the as selected by this	e published with the abstract is Figure No	gest a figure.

Form PCT/ISA/210 (fust sheet) (April 2007)

PCT/IB2009/002028 29.07.2008

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB06/02028

Box No. II	Observations where certain claims were found unscarchable (Continuation of item 2 of first sheet)
This interna-	ional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. C	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3: X 6.4(2).	Claims Nos.: 31-37 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule
Box No. II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Interna	ional Searching Authority found multiple inventions in this international application, as follows:
2	As all required additional search fees were timely paid by the applicant, this international search report covers all scarchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on	Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest
	fee was not paid within the time fund specified in the invitation.
	No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB06/02028

A. CLAS	SIFICATION OF SUBJECT MATTER	anangan ing manangan ang manangan			
IPC:	aoin 43/96(2006.01);a61 k 31/33(2006.01)				
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Documentatio	on searched other than minimum documentation to the	e extent that such documents are included	in the fields yearshed		
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C DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
» »	US 5,770,466 B2 (Shi et al.) 3 August 2004 (03.08. 20; col. 83, lines 10 thru col. 83 line 20; columns 9	(94), col. 51, line 64 thru col. 52 line	1, 4-16, 20, 23-24, 27- 29, 31, 38, 41		
*.	col. 173 lines 5-11; col. 174 lines 10-45;		3°3, 17-19, 21-22, 25- 26, 39, 39-40, 42-43		
y	US 2004/0265391 A1 (Danenberg et al.) 30 Decem and staims 29, 68.	ber 2004 (30.12.04), page 3 (0928),	2-3, 17-19, 21-22, 24- 30, 39-40, 42-43		
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INTERNATIONAL SEARCH REPORT	International application No. PCT/1806/02028
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